

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION #2 SP

ATTORNEY DOCKET NO. 10019928-2

2124.
9-26-03

SEP 22 2003

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Carl D. Burch

Confirmation No.:

Application No.: 10/017,572

Examiner:

Filing Date: 10/23/01

Group Art Unit:

Title: Method and System for Optimizing Compilation Time of a Program by Selectively Reusing Object Code

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

RECEIVED

SEP 23 2003

INFORMATION DISCLOSURE STATEMENT

Technology Center 2100

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- () under 37 CFR 1.97 (c) together with either a:
() Statement under 37 CFR 1.97(e), or
() a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- () under 37 CFR 1.97 (d) together with a:
() Statement under 37 CFR 1.97(e)(1) or (2), and
() a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

() A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

- (X) I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 9/15/03

OR

- () I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number _____ on _____ Number of pages: _____

Typed Name: Stephanie Riley

Signature: Stephanie Riley

Respectfully submitted,

Carl D. Burch

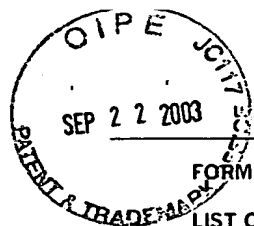
By Adam E. Crall

Adam E. Crall

Attorney/Agent for Applicant(s)
Reg. No. **46,646**

Date: 9.15.03

Telephone No.: (770) 933-9500



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	5,204,960 •	04/20/93	Steven Smith et al	
	1B	5,375,242 •	12/20/94	Rajiv Kumar et al.	
	1C	5,655,122 •	08/05/97	Youfeng Wu	
	1D	5,815,720 •	09/29/98	William B. Buzbee	
	1E	5,850,554 •	12/15/98	Timothy M. Carver	
	1F	6,308,320 B1 •	10/23/01	Burch	
	1G	5,230,050 •	07/20/93	Iitsuka et al.	
	1H	5,301,327 •	04/05/94	McKeeman et al.	
	1I	5,313,387 •	05/17/94	McKeeman et al.	
	1J	5,325,531 •	06/28/94	McKeeman et al.	
	1K	5,586,328 •	12/17/96	Caron et al.	

RECEIVED

SEP 23 2003

Technology Center 2100

FOREIGN PATENT DOCUMENTS

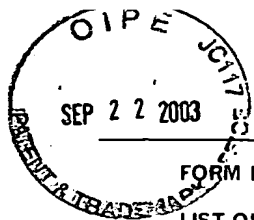
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	"PA Risk Compiler Optimization White Paper." Copyright Hewlett-Packard Co. 1992 (#5091-5594E). Visited 1/14/98. < http://cllweb.cup.hp.com/llo> •
1R	"PA-RISC Optimizer Trouble-Shooting Guide." Carl Burch, Copyright Hewlett-Packard Co. 1996, version 2.1 •
1S	"Compiler Optimizations For The PA-8000." Anne M. Holler, Hewlett-Packard Company •

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	2A				RECEIVED SEP 23 2003 Technology Center 2100
	2B				
	2C				
	2D				
	2E				
	2F				
	2G				
	2H				
	2I				
	2J				
	2K				

FOREIGN PATENT DOCUMENTS

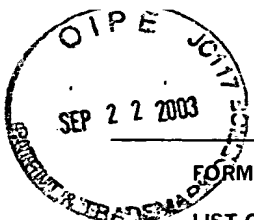
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	2L					
	2M					
	2N					
	2O					
	2P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

2Q	Fowler et al. Principles for Writing Reusable Libraries. ACM. Pp. 150-159. 1995 •
2R	"Profile-Based Optimization," (HP-UX Linker And Libraries User's Guide, visited 11/18/98) < http://info.fc.hp.com:80/dynaweb/hGeneric_BookTextView/25764;uf= 0#X> •
2S	"When To Use PBO," (HP-UX Linker And Libraries User's Guide, visited 11/20/98) < http://info.fc.hp.com:80/dynaweb/huen 1 a/@Generic_BookTextView/25845> •

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	3A				
	3B				
	3C				
	3D				
	3E				
	3F				
	3G				
	3H				
	3I				
	3J				
	3K				

RECEIVED

SEP 23 2003

Technology Center 2100

FOREIGN PATENT DOCUMENTS

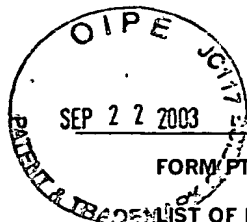
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	3L					
	3M					
	3N					
	3O					
	3P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

3Q	" Using PBO With Id-r," (HP-UX Linker And Libraries User's Guide, visited 11/20/98) < http://info.fc.hp.com:80/dynaweb/huen 1 a/@Generic_BookTextView /27667> ●
3R	" Selecting An Optimization Level With PBO," (HP-UX Linker And Libraries User's Guide, visited 11/20/98) < http://info.fc.hp.com:80/dynaweb/huen 1 a/@Generic_BookTextView /27412> ●
3S	" Storing Profile Information For Multiple programs," (HP-UX Linker And Libraries User's Guide, visited 11/20/98) < http://info.fc.hp.com:80/dynaweb/hGeneric_BookTextView /26652;uf= 0#X> ●

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	4A				RECEIVED SEP 23 2003 Technology Center 2100
	4B				
	4C				
	4D				
	4E				
	4F				
	4G				
	4H				
	4I				
	4J				
	4K				

FOREIGN PATENT DOCUMENTS

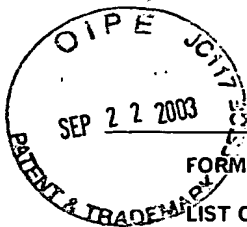
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	4L					
	4M					
	4N					
	4O					
	4P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

4Q	"Forking An Instrumental Application," (HP-UX Linker And Libraries User's Guide, visited 11/20/98) < http://info.fc.hp.com:80/dynaweb/hGeneric_BookTextView /26892;uf= 0#X> ?
4R	"Using PBO To Optimize Shared Libraries," (HP-UX Linker And Libraries User's Guide, visited 11/20/98) < http://info.fc.hp.com:80/dynaweb/huen 1 a/@Generic_BookTextView /27544> ?
4S	"Optimizing Based On Profile Data (+ P/P)," (HP-UX Linker And Libraries User's Guide, visited 11/20/98) < http://info.fc.hp.com:80/dynaweb/huen 1 a/@Generic_BookTextView /26943> ?

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	5A				RECEIVED SEP 23 2003 Technology Center 2100
	5B				
	5C				
	5D				
	5E				
	5F				
	5G				
	5H				
	5I				
	5J				
	5K				

FOREIGN PATENT DOCUMENTS

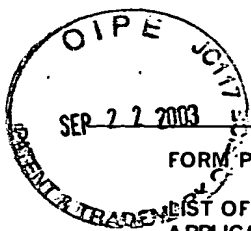
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	5L					
	5M					
	5N					
	5O					
	5P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

5Q	"Linker Optimizations," (HP-UX Linker And Libraries User's Guide, visited 12/4/98) < http://info.fc.hp.com:80/dynaweb/hBookTextView/25332?DwebQuery= isom>
5R	"Using The Compiler To Link," (HP-UX Linker And Libraries User's Guide, visited 12/4/98) < http://info.fc.hp.com:80/dynaweb/h..._BookTextView/3313?DwebQuery= isom>
5S	"Instrumenting (= I/I)," (HP-UX Linker And Libraries User's Guide, visited 12/4/98) < http://info.fc.hp.com:80/dynaweb/h.../26095;nh= 1;uf= 0?DwebQuery= i-som#X>

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	6A				RECEIVED SEP 23 2003 Technology Center 2100
	6B				
	6C				
	6D				
	6E				
	6F				
	6G				
	6H				
	6I				
	6J				
	6K				

FOREIGN PATENT DOCUMENTS

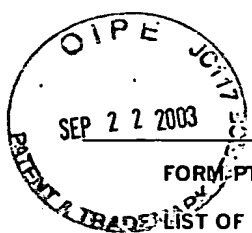
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	6L					
	6M					
	6N					
	6O					
	6P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

6Q	"Choosing Input Data," (HP-UX Linker And Libraries User's Guide, visited 12/20/98) < http://info.fc.hp.com:80/dynaweb/h...Generic_BookTextView /26517;uf= O#X> •
6R	"Sharing The Flow.data File Among Multiple Processes," (HP-UX Linker And Libraries User's Guide, visited 11/20/98) < http://info.fc.hp.com:80/dynaweb/h... Generic_BookTextView /26773;uf= O#X> •
6S	"Linker Optimizations," (HP-UX And Libraries User's Guide, visited 11/18/98) < http://info.fc.hp.com:80/dynaweb/h...uen 1 a/@Generic_BookTextView /25332> •

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	7A				RECEIVED SEP 23 2003 Technology Center 2100
	7B				
	7C				
	7D				
	7E				
	7F				
	7G				
	7H				
	7I				
	7J				
	7K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	7L					
	7M					
	7N					
	7O					
	7P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

7Q	"Improving Shared Library Start-Up Time With Fastbind," (HP-UX Linker And Libraries User's Guide, visited 11/18/98) < http://info.fc.hp.com:80/dynaweb/h...uen 1 a/@Generic_BookTextView /28512> "
7R	"What Happens When You Compile And Link A Program," (HP-UX Linker And Libraries User's Guide, visited 12/08/98) < http://docs.hp.com:80/dynaweb/hpux11/dtdc...ric_BookTextView /1598?DwebQuery= loader#1 > "
7S	"Looking Inside A Compiler," (HP-UX Linker And Libraries User's Guide, visited 12/08/98) < http://docs.hp.com:80/dynaweb/hpux11/dtdc...extView /1790;nh= 1;uf= 0?DwebQuery= loader #X> "

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	8A				RECEIVED SEP 23 2003 Technology Center 2100
	8B				
	8C				
	8D				
	8E				
	8F				
	8G				
	8H				
	8I				
	8J				
	8K				

FOREIGN PATENT DOCUMENTS

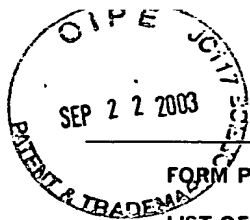
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	8L					
	8M					
	8N					
	8O					
	8P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	8Q	"Position Independent Code," (HP-UX Linker And Libraries User's Guide, visited 12/08/98) < http://docs.hp.com:80/dynaweb/hpux11/dtdc...ic_BookTextView /24622?DwebQuery= loader#1 >
	8R	"SmartBuild External Specification, Version 1.0," Carl Burch, Nathaniel Nystrom (Dec. 08, 1998). visited 1/13/99: < http://cllweb.cup.hp.com./lo/documents/general/smartbuild_es.html>
	8S	"SmartBuild High-Level Design, Version 1.0," Carl Burch, Nathaniel Nystrom (Sept. 28, 1998). visited 1/13/99: < http://cllweb.cup.hp.com./lo/documents/general/smartbuild_hld.html>

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	9A				RECEIVED SEP 23 2003 Technology Center 2100
	9B				
	9C				
	9D				
	9E				
	9F				
	9G				
	9H				
	9I				
	9J				
	9K				

FOREIGN PATENT DOCUMENTS

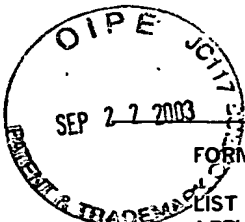
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	9L					
	9M					
	9N					
	9O					
	9P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	9Q	"SmartBuild Low Level Design, Version 1.0." Nathaniel Nystrom (October 22, 1998). Visited 1/13/99: < http://cllweb.cup.hp.com./llo/documents/general/smartbuild_1ld.html >
	9R	"Performance Tuning With PA-RISC Compilers." Visited 1/13/99. < http://cllweb.cup.hp.com./llo/documents/general/perf.tuning.html >
	9S	"Boolean Operator," Visited 12/08/98. < http://webopedia.internet.com/Programming/Operators/Boolean_operator.html >

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	10				RECEIVED SEP 23 2003 Technology Center 2100
	10				
	10				
	10				
	10				
	10				
	10				
	10				
	10				
	10				
	10				
	10				
	10				
	10				
	10				

FOREIGN PATENT DOCUMENTS

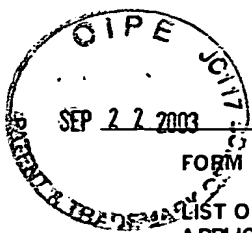
		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	10					
	10					
	10					
	10					
	10					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	10	Secure Hash Standard (U.S. Dept. of Commerce/National Institute of Standards and Technology, FIPS PUB 180-1. April 17, 1995. •
	10	"The MD5 Message-Digest Algorithm," Ronald L. Rivest, Network Working Group, MIT Laboratory For Computer Science and RSA Data Security, Inc. April 1992 (RFC 1321). •
	10	"What Is An Object File?" (HP-UX Linker And Libraries User's Guide, visited 12/1/98) < http://info.fc.hp.com:80/dynaweb/h...h= 1;uf= O?DwebQuery= Instrumenting#X> •

EXAMINER

DATE CONSIDERED



PATENT APPLICATION

Sheet 11 of 11

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10019928-2

APPLICATION NO.

10/017,572

CONFIRMATION NO.

APPLICANT

Carl D. Burch

FILING DATE

10/23/01

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	11				RECEIVED SEP 23 2003 Technology Center 2100
	11				
	11				
	11				
	11				
	11				
	11				
	11				
	11				
	11				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	11					
	11					
	11					
	11					
	11					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	11	* Linking Programs On (HP-UX Linker And Libraries User's Guide, visited 12/1/98) < http://info.fc.hp.com:80/dynaweb/h.../2170;nh= 1?DwebQuery= Instrumenting >
	11	* Linking With Libraries,* (HP-UX Linker And Libraries User's Guide, visited 12/1/98) < http://info.fc.hp.com:80/dynaweb/h.../2682;nh= 1?DwebQuery= Instrumenting >
	11	

EXAMINER

DATE CONSIDERED